

UNITED STATES DEPARTMENT OF AGRICULTURE
Rural Utilities Service
Technical Standards Committee "A"

Supplement No. 3, April 2006, to
RUS Informational Publication 202-1,
List of Materials Acceptable for Use on
Systems of RUS Electrification Borrowers

The attached pages dated April 2006, for the "List of Materials Acceptable for Use on Systems of RUS Electrification Borrowers" are those which have been revised by action of the Technical Standards Committees during the months of January through March, 2006. They replace pages dated July 2005, October 2005, and January 2006. The following changes should be made in order to keep RUS Informational Publication 202-1 up to date.

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m – Clamp, suspension - cushioned

Condition: To obtain experience

ACSR

Preformed Line Products	1/0 - 4/0 CGS-2100	226 kcmil - 477 kcmil CGS-2101	556 kcmil – 954 kcmil CGS-2102
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be - Recloser, vacuum interruption with solid dielectric

Manufacturer	Conditions
<u>Joslyn Hi-Voltage</u> Three-phase, Type TRIMOD 300 series, vacuum interruption, solid dielectric foam, 560 amps maximum continuous, 12000 amps RMS symmetrical interruption, 15.5 kV maximum for 12.5/7.2 kV, 27 kV maximum for 24.9/14.4 kV	To obtain experience.
Single-phase, Type TRIMOD 100 series, vacuum interruption, solid dielectric foam, 560 amps maximum continuous, 12500 amps RMS symmetrical interruption, 17.1 kV maximum for 12.5/7.2 kV, 29.3 kV maximum for 24.9/14.4 kV	To obtain experience.
<u>Siemens</u> Three-phase, Type Centurion rated 630A maximum continuous, electronically controlled, vacuum interruption, solid dielectric, 12500 amps RMS symmetrical interruption, C1512 (15.5 kV maximum for 12.5/7.2 kV), C2712 (27 kV maximum for 24.9/14.4 kV)	To obtain experience.

NOTES:

1. Series trip reclosers with ratings greater than 100 amp for 12.5/7.2 kV application, greater than 200 amp for 24.9/14.4 kV application, and 280 amp for 34.5/19.9 kV application are acceptable only with ground trip device. Shunt trip reclosers without ground trip devices may not be used with trip settings higher than 200 amp for 12.5/7.2 kV application, greater than 400 amp for 24.9/14.4 kV application, and 560 amp for 34.5/19.9 kV application.
2. Reclosers are not acceptable with load current, bushing CT battery chargers.

by - Deadend, automatic and formed Type

<u>Conductor Size</u>			
<u>Cu</u>	<u>CWC</u>	<u>Hubbell (Fargo)</u>	<u>Maclean (Reliable)</u>
-	4A	GD-515	27-SDS
-	6A	GD-513	47-SDS
-	8A	GD-512	-
2 x 3	-	GD-515	271
4	-	GD-512	41LD
6	-	GD-511	61LD

ACSR

*Blackburn	ATD Series
*Dulmison	AWDG-0805, 0990, and 1135
*Hubbell (Fargo)	GD-400 Series
*MacLean (Reliable)	7650 Series
Preformed	DG Series

*For use on conductors 4/0 and smaller only.

Aluminum Alloy
(6201 and 5005)

Blackburn	ATD Series
Hubbell (Fargo)	GD-A Series
MacLean (Reliable)	AL Series
Preformed	DG Series

ea-1
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ea - Insulator and stud, post type, vertical

DISTRIBUTION (RUS Minimum Requirements)

System voltage, kV	12.5/7.2	12.5/7.2	24.9/14.4
Leakage, inches	7-1/2	10	15
Cantilever strength (pounds)	1875	1875	1875
Flashover, dry, kV	65	70	95
Flashover, wet, kV	40	50	65

Lapp

7" Stud	4415P	4420P	4427P
1-3/4" Stud	4315P	4320P	4327P

Newell Porcelain

7" Stud	-	43570-7040	47101-7040
1-3/4" Stud	-	43570-7010	47101-7010

Porcelain Products (Knox)

7" Stud	5115-6510	5120-6510	5127-6510
1-3/4" Stud	5115-6500	5120-6500	5127-6500

DISTRIBUTION or TRANSMISSION

ANSI Class	57-2	57-3	57-4
System voltage, kV	22	34.5	46

ICB

7" Stud	-	-	-
1-3/4" Stud	ICB 57-2	ICB 57-3	-

Lapp

7" Stud	9435	9445	9455
1-3/4" Stud	9335	9345	9355

Newell Porcelain

7" Stud	37620-7040	41640-7040	41650-7040
1-3/4" Stud	37620-7010	41640-7010	41650-7010

Porcelain Products (Knox)

7" Stud	5135-6512	5145-6512	-
1-3/4" Stud	5135-6502	5145-6502	-

ga - Watthour and Watthour-Demand Meters
Solid State Registers

Manufacturer	Conditions
<u>Electro Industries/GaugeTech</u> NEXUS 1262 Form 9S, Class 20 NEXUS 1272 Form 9S, Class 20	To obtain experience.
<u>Elster</u> Solid State Polyphase Watthour meter, Alpha line, A1, A and S type bases (all forms) Class 20 and 200, 120, 240, 277, and 480 V	To obtain experience.
<u>GE</u> kV Vector Meter Form 10A, 36A, 45A, 48A, 3S, 9S, 36S, 45S 56S; Class 20; 120 V to 480V or 57V to 120V Form 13A, 16A; Class 150; 120V to 480 V Form 2S, 12S, 16S; Class 200 or 320; 120V to 480V	To obtain experience.
<u>Invensys</u> Socket base, 3 wire, single-phase watthour meter, Type iS01, Class 200	To obtain experience.
Socket base, 3 wire, single-phase watthour meter, Type iSA1 Class 200 with integrated Itron 51ESS ERT	To obtain experience.
Socket base, 3 wire, single-phase watthour meter, Type iN01 Class 200 Electronic Network Meter.	To obtain experience.
Socket base, 3 wire, single-phase watthour meter, Type iNA1 Class 200 iCon Network Meter with Integrated AMR	To obtain experience.
<u>Itron Inc.</u> SENTINEL Forms 9S, 10A, 45A, 45S, 46A, 46S, 48A, 66S Class 20 Form 16A Class 150 Forms 2S, 12S, 16S Classes 200 and 320	To obtain experience.

ga - Watthour and Watthour-Demand Meters
Solid State Registers

Manufacturer	Conditions
<u>Landis+Gyr</u>	
Solid State Watthour Meter Type DDS2, Form 5S, 6S, 8S, 9S, 10S, Class 20.	To obtain experience.
<u>FOCUS</u>	
Form 1S, Class 100	
Form 25S, Class 200	
Form 2S, Class 200TA30 and 200TA50	
Form 2SE, Class 320TA30 and 320TA50	
Form 2K, Class Class 4800/600	
Form 3S, 4S, Class 10 and 20	
<u>Altimus Solid State Meter</u>	
Form 1S, Class 100	
Form 25S, Class 200	
Form 2S, Class 200TA30 and 200TA50	
Form 2SE, Class 320TA30 and 320TA50	
Form 2K, Class 480/600	
Form 3S, 4S, Class 10 and 20	
<u>S4 Polyphase Solid State Meter</u>	
Form 5S/45S, 6S/36S, 9S/8S, Class 20	
Form 12S, 16S, Class 200	
<u>Power Measurement</u>	
<u>ION 8300</u>	
Form 9S, 35S, 36S Class 20	To obtain experience.
<u>ION 8400</u>	
Form 9S, 35S, 36S, 39S, 76S Class 20	To obtain experience.
<u>ION 8500</u>	
Form 9S, 35S, 36S, 39S, 76S Class 20	To obtain experience.
<u>Schlumberger</u>	
<u>CENTRON</u>	
Form 2S, Class 200.	To obtain experience.
Solid State or Mechanical Register.	
<u>FULCRUM SQ400</u>	
Form 5A, 6A, 9A, 5S, 6S, 9S, 10S, Class 20	To obtain experience.
<u>FULCRUM SL300 Series</u>	
Form 5A, 6A, 8A, 9A, 5S, 6S, 8S, 9S, 10S, 12S, 14S, 15S, 16S, Class 20 and 200.	To obtain experience.
<u>QUANTUM Q200 Series</u>	
Form 5A, 6A, 8A, 9A, 5S, 6S, 8S, 9S, 10S, 26S, Class 20 and 200.	To obtain experience.
<u>QUANTUM Q300 Series</u>	
Form 6A, 9A, 6S, 9S, 10S, Class 10 and 20.	To obtain experience.
<u>VECTRON SVX</u>	
Form 5A, 6A, 8A, 10A(9A), 5S, 6S, 9S(8S), 12S, 16S(14S, 15S), 26S, Class 20 and 200.	To obtain experience.

ga - Watthour and Watthour-Demand Meters
Solid State Registers

Manufacturer	Conditions
<u>Transdata, Inc.</u> MARK-V EMS Form 5S, 5A, 6S, 6A, 8S, 8A, 9S, 9A Class20	To obtain experience.

gb - Meter Sockets

Type or Catalog Number				
<u>Manufacturer</u>	<u>Ring</u>	<u>Ringless</u>	<u>No. Jaws</u>	<u>Rating Amps.</u>
Durham	R-RS512	RS502#	4 or 5	150
	R-RS502	RS512#		
		H-4300 Series#	4, 5, 7	320
		H-5300 Series#		
		H-7300 Series#		
	RS101-RS111#	RS101-RS111#	4 or 5	100
	2R1121-6R1131#	2R1121-6R1131#		
	2R1421-6R1431#	2R1421-6R1431#		
	RS202#	RS202#	4 or 5	200
	RS212, RS213#	RS212, RS213#	4 or 5	200
	RS220-RS233#	RS220-RS233#		
	2R2332-6R2392#	2R2332-6R2392#		
Eaton Electrical	R-RS512-CH	RS502-CH #	4 or 5	150
	R-RS502-CH	RS512-CH#		
		H-4300-CH Series#	4, 5, 7	320
		H-5300-CH Series#		
		H-7300-CH Series#		
	RS101-RS111-CH #	RS101-RS111-CH #	4 or 5	100
	2R1121-6R1131-CH#	2R1121-6R1131-CH #		
	2R1421-6R1431-CH #	2R1421-6R1431-CH #		
	RS202-CH #	RS202-CH #	4 or 5	200
	RS212-CH, RS213-CH #	RS212-CH, RS213-CH #	4 or 5	200
	RS220-RS233-CH #	RS220-RS233-CH #		
	2R2332-6R2392-CH #	2R2332- 6R2392-CH #		
Dyna-Tech	<u>Overhead</u>			
	1100-C - 1107-C	1000-C - 1007-C	4 & 5	100
	1300-C - 1307-C	1200-C - 1207-C	4 & 5	100
	2100-CH-2107-CH	2000-CH-2007-CH	4 & 5	200
	2300-CH-2307-CH	2200-CH-2207-CH	4 & 5	200
	<u>Underground</u>			
		2590-CHU-2597-CHU	4 & 5	200
		2790-CHU-2797-CHU	4 & 5	200
		2090-CHU-2097-CHU	4 & 5	200
		2290-CHU-2297-CHU	4 & 5	200
General Switch	42100 Series*		4, 5, 6	100

*UL Label

#Available with UL label

sc - Regulators, Voltage

<u>Manufacturer</u>	<u>Conditions</u>
<u>General Electric</u> Three-phase, step-type substation regulator Type TMLT-32 (13.2/7.62 kV)	To obtain experience.
<u>Howard Industries, Inc.</u> Single-phase, 32 step, line/substation, 50, 75, 100, 150, and 219 ampere, 7.62 kV, Type SVR-1 Single-phase, 32 step, line/substation, 50, 100, 150, 200, and 231 ampere, 14.4 kV, Type SVR-1	To obtain experience.
<u>Siemens-Allis</u> Three-phase, step-type substation regulator Type SFR (13.2/7.62 kV)	To obtain experience.

U fz - Transformer Connector Block, Insulated
Multiple Cable Connectors

Watertight - For use in all locations

Manufacturer	Connection Type	Catalog Number
Blackburn	Lug	SCU, with lugs and sleeves
Burndy	Lug	Stud Mole with sealing sleeve
Utilco	Set Screw	PTF-SS, Watertight insulated transformer connector block

Non-Watertight - For use in above grade locations only

Alcoa	Lug	Interchange 1 ABBD Series (Disconnectable) Use with A9 insulating boots
Alcon	Set Screw	VBTT Series with double sealing sleeve
Blackburn	Set Screw	TSB-J58C (Permanent)
	Set Screw	TSB-D58C (Disconnectable)
Burndy	Set Screw	K-D Series (Disconnectable)
		K-DF Series (Permanent)
Connector Mfg. Co.	Set Screw	Uni-Joint Bar Connectors, (Series RLS, NSM-C, NDS-C, NSC, ZS-C, ZSU-C, RLUS) (Permanent)
	Set Screw	Uni-Joint Bar Connectors, (Series RLSS, NSSM-C, NSSC, ZQC, ZQU-C, RLUS) (Disconnectable)
ESP	Lug	Types SUR and RDSR(Removable) (With Types LA and AL-lugs and Sleeve kits)
	Set Screw	Type UPSO-I (Permanent)
		Type UPM-I (Disconnectable)
Homac	Lug	DF Series
	Lug	FTU 125 Series(Disconnectable) with flood seal sleeve kit
	Set Screw	ABD, ABK, ABS, ABW, CLRTR, CSW, CSS, LRT, RAU, EZC, Z series; ZBK with SB covers; ZVW with boot
Hubbell (Fargo)	Bolted	GUC Series
	Set Screw	GUS-460S Series
MacLean (Reliable)	Set Screw	15912-REA (Disconnectable)
Penn Union	Lug	Type DBAT (Permanent)
	Lug	Type DBAT-LH (Disconnectable)
		Use with Series DBTB, DBTBF and DBTH lug and Sleeves kits
Preformed	Set Screw	SC-C series (Permanent)
	Set Screw	CSC-Q-C Series, SC-Q-C series (Disconnectable)
Utilco	Set Screw	PTF-IN (Permanent)
	Set Screw	PTF-CJNU, PSS Series (Disconnectable)
Vector Connectors Corp.	Set Screw	TQL Series (Disconnectable) (with insulating boot)

Note: Additional insulation may be required with some of the above-listed secondary terminal blocks due to the irregularity of mating surfaces between various secondary studs being supplied by the transformer manufacturers.

U gn - Enclosures, Equipment

Sectionalizing Enclosures

<u>Manufacturer</u>	<u>Catalog No.</u>
<u>Brooks Utility Products Group</u>	<u>Single Phase</u> 750-7437-001, 750-7437-002, 750-7437-003, 750-7437-004 <u>Three Phase</u> 750-7438-001, 750-7438-002, 750-7438-003, 750-7438-004, 750-7438-005, 750-7438-006, 750-7438-007
<u>Cooper Power Systems</u>	SecTER Series I and II (Single-Phase and Three-Phase)
<u>Durham</u>	AMSP() Series
<u>Highline Products</u>	FSC-32 Single Phase FSC-33 Single Phase FSC-62 Three Phase FSC-55 Three Phase FSC-65 Three Phase FSC-79 Three Phase
<u>Maysteel</u>	CW200 Series CW300 Series
<u>Nordic</u>	ND-Series
<u>Power Design Inc.</u>	Type CJP series, single-phase and three-phase, 15 and 25 kV
<u>Rough Rider Industries</u>	Series RUF93
<u>Shallbetter</u>	SPMS Series (dead-front)

NOTE:

1. The above enclosures are available with various multipoint terminations. The owner should specify termination points to be provided.
2. These enclosures have been certified as meeting the requirements of ANSI C57.12.28. A copy of the certification is available from the manufacturer.

U gu-1
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U gu - Pedestal, Power
(Above-Grade)
Refer to Construction Drawing UK5

Applicable Specifications: "RUS Specifications for Secondary Power Pedestals," U-6

Manufacturer	Inside Dimensions Inches	Height Inches	Catalog No.
<u>API</u>	6X6	32	API 6X6
	9X10	25-1/2	API 9 X 10
	10X11	34	API 10 X 11
	10X11	12-1/4	API 10 X FM
	10X11	72	API 10X11XL
	10X14	22-1/2	API 10 X 14
	10X14	26-1/2	API 10 X 14 WB
	16X28	38	API 16X28
	13 Dia.	25	API 176
<u>Coil Sales</u> (Charles Industries)	8.25 Dia	31-1/2	CPLP-8
	8.25 Dia	31-1/2	CPLP-8I(Integral Stake)
	10.75 Dia	31-1/2	CPLP-10
	10.75 Dia	31-1/2	CPLP-10I(Integral Stake)
<u>Electrimold</u>	14.5 x 19.5	31.5	EFSO-111630
<u>Highline Products</u>	14 X 9	31	FSP140931AA
	15.5 X 15.5	30	FSP151530AA
	15.5 X 15.5	36	FSP151536AA
	14 X 9	36	FSP140936AA
	9 X 9	31	FSP090931AA
<u>MacLean (Reliable)</u>	8 x 8	38	UP 8HLP
	8 x 8	46	UP 8HP
	10-1/2 x 10-1/2	26	UP 10HLP
	16-1/2 x 10-1/2	36	UP 1016HLP
	10-1/2 x 10-1/2	42	UP 10HP
<u>Nordic</u>	8 x 8	44	PR-50, PR-55
	9 x 14	30	PR-149 (stake)
			PR-150 (stakeless)
	9 x 14	30	PRMC 150 (low profile)
	9 x 14	24	PRMC-160
	9 x 14	30	PRMC-170 (high profile)
	9 x 14	36	PRMC-190
	9 X 13	30	PSP-91330
	10 X 15	38	PSPF-101538
	15 X 15	30	PSP-151530
	21 X 21	15	PHH-212115
	16 X 19	12	PHH-161912
<u>PenCell</u>	11X14	37	AG-15

U gu-2
April 2006

U gu - Power Pedestal
(Below-Grade)
Refer to Drawing UK6

Applicable Specifications: "RUS Specifications for Secondary Power Pedestals," U-6

<u>Manufacturer</u>	<u>Catalog No.</u>
<u>Armorcast</u>	Polymer concrete frame and cover with fiberglass reinforced polyester skirting 6001 Series. P600XXXXA Rotocast Series, molded polyethylene with penta-head bolt
<u>Associated Plastics</u>	Molded polyethylene with galvanized steel or plastic cover Catalog Nos. 1730-1, 3; 1324-1, 3
<u>Blackburn</u>	Molded polyethylene with galvanized steel cover and ground lug. Catalog No. SDR-2PG
<u>Burndy</u>	Molded polyethylene with galvanized steel cover. Catalog No. URD20G23
<u>Carson</u>	Molded polyethylene with plastic cover Catalog No. 1324-12B and 1730-12B H910, HLW1212, H1118, H1324, H1730, H1730, H2436, H3048, HH3060
<u>CDR Systems (Homac)</u>	Fiber reinforced polymer concrete - PA Series with penta-head bolts
<u>Christy Concrete</u>	Polyester reinforced plastic - Series FL8TRCBOX, FL9TRCBOX, FL30TRCBOX, FL36TRCBOX
<u>Dexol</u>	HDPE, DX-101, DX-102 ABS, DX-101HD, DX-102HD
<u>Electrimold</u>	Polymer concrete ring and cover with fiberglass reinforced skirting ECAB series. Boxes EPBTH, EPBA series
<u>Highline Products</u>	FHH Series, Fiberglass CHA Series, Fiberglass polymer concrete hybrid
<u>Hubbell (Fargo)</u>	HDPE, B-100R Series ABS, B-200R Series HL51

U hw - Safety signs

Applicable Specifications: RUS Drawings ANSI Z535

Manufacturer	Size (inches)	Danger Sign Catalog No.	Warning Sign Catalog No.	Caution Sign Catalog No.
Almetek	7 x 10 10 x 14 14 x 20	Trident D-100-0710 Trident D-100-1014 Trident D-100-1420	Trident W-100-0710 Trident W-100-1014 Trident W-100-1420	
Brady*	7 x 10 10 x 14	46133 46131		46043 46041
Eastern Metal*	7 x 10 10 x 14 14 x 20 20 x 28	REA 12-1-710 REA 12-1-1014 REA 12-1-1420 REA 12-1-2028		REA 12-2-710 REA 12-2-1014 REA 12-2-1420 REA 12-2-2028
Electromark*	7 x 10 7 x 10 10 x 14 10 x 14 14 x 20 14 x 20 20 x 28 20 x 28	REA-1-7x10-SV REA-1-7x10-AC REA-1-10x14-SV REA-1-10x14-AC REA-1-14x20-SV REA-1-14x20-AC REA-1-20x28-SV REA-1-20x28-AC		REA-2-7x10-SV REA-2-7x10-AC REA-2-10x14-SV REA-2-10x14-AC REA-2-14x20-SV REA-2-14x20-AC REA-2-20x28-SV REA-2-20x28-AC
Lem	7 x 10 10 x 14 14 x 20	LSS-1400 LSS-1401 LSS-1402		LSS-1500 LSS-1501 LSS-1502
Lyle*	7 x 10 10 x 14 14 x 20 20 x 28	UM12-1-710 UM12-1-1014 UM12-1-1420 UM12-1-2028		UM12-2-710 UM12-2-1014 UM12-2-1420 UM12-2-2028
May Advertising	7 x 10 10 x 14 14 x 20 20 x 28	MY710C MY1014C MY1420C MY2028C		MY710B MY1014B MY1420B MY2028B
For pressure sensitive decal add "D" prefix				
Truck Sign Service*	7 x 10 10 x 14 14 x 20 20 x 28	TSD-710 TSD-1014 TSD-1420 TSD-2028		TSC-710 TSC-1014 TSC-1420 TSC-2028

*Reflective signs also available.

The signs listed on this page are to be secured to equipment and transformer enclosures by means of an adhesive or by welding. Screws and rivets are not to be used.

U ja - Equipment Flat Pad*

<u>Manufacturer</u>	<u>Catalog Number</u>
<u>Armorcast</u>	600 Series, Polymer Concrete P600XXXX Rotocast, LLDPE
<u>Associated Plastics</u>	API 4000 Series RPM
<u>Carolina Dielectrics</u>	Model 0502-1, Fiberglass, Size:40"x44"
<u>CDR Systems (Homac)</u>	PP Series, Fiber reinforced polymer concrete
<u>Diversitech</u>	TP Series - Fiberglass reinforced concrete
<u>Electri-Glass</u>	Fiberglass LP-4145, 41" x 45"
<u>Electrical Materials</u>	Molded HMW Polyethylene Model 64-3BC, 42" x 41" x 4" Model 65-4BC, 52" x46"
<u>Electrimold</u>	EPPT
<u>Highline Products</u>	PBP Series, Polymer concrete hybrid HL-46B, Fiberglass, Size: approx. 42" X 42"
<u>Formex</u>	Mode1 TP-REA, Molded polyethylene
<u>Heil Rotomold, Inc.</u>	T Series, High density polyethylene
<u>Highline</u>	HL-46B, Fiberglass, Size: approx.42"x42"
<u>Hubbell (Chance)</u>	C107-0162 Fiberglass, Size: 40" x 44"
<u>Major Frame-Crete</u>	ETPP precast, cellular concrete, 42"x42"
<u>Nordic</u>	TP Series, Fiberglass
<u>Parking Bumper Company - a Division of Hog Slat, Inc.</u>	7610, 7612, 7613, 7626PE, 7621
<u>PenCell Plastics</u>	TP-4220, TP-4224, TP-4227
<u>Quality Rubber Company</u>	34242 light-weight concrete
<u>Quazite Corp.</u>	Composolite - PH Series
<u>RMI-D</u>	Dwg. No. 730126-2, Molded polyethylene Size: 42" x 42"
<u>Smith Cattleguard</u>	Easi Set T. Series, Precast Reinforced Concrete
<u>Thermodynamics</u>	Poly-Pad, PR Series, Molded polyethylene YEPR031220, YEPR031226, compression molded polypropylene

*Order by catalog number and size.